

**BALANCE DEVICE**

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**Inventor:** KEINO HIROYOSHI  
**Applicant:** TERUMO CORP  
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**Abstract of JP4129536**

**PURPOSE:** To obtain a balance device with which the balance precision is improved, by correcting the detection error of a weight detecting means which is caused by the tilt of a container supporting part, according to the tilt of the container supporting part, and installing a control means for obtaining the weight in a container on the container supporting part. **CONSTITUTION:** As for a blood taking device 10, a bag receiving plate 19 is supported on a balance 33 which is cantilever-supported through a balance installation member 31, and the CPU 65 of a main control circuit 61 detects the weight of a blood bag 1 on the bag receiving plate 19 in the vertical direction for the bag receiving plate, from the output V2 of a weight detecting sensor 34 consisting of a strain guage on the basis of the torsional deformation of the balance 33. Further, the CPU 65 of the main control circuit 61 calculates the tilt angle theta which the bag receiving plate 19 forms for the vertical direction in the case when a weight detection sensor 34 detects weight, from the output V1 of a tilt detection sensor 100 installed on the bag receiving plate 19 or a swing frame 22. The CPU 65 of the main control circuit 61 detects the correct weight of the blood bag 1 by correcting the output V2 of the weight detection sensor 34 by using the tilt angle theta, and the blood taking-in quantity is measured.

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